

ABB BALDOR RELIANCE III

Customer information packet

CFSWDNM3556-E

1HP, 1180RPM, 3PH, 60HZ, 56C, 3544M, TENV, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.000 A @ 208.0 V 4.000 A @ 230.0 V 2.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	35E4735
Base	
Status	PRD/A
Elec. spec.	35WGG332
Layout	35LYE4735
Eff. date	01-21-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	2.0 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3544M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.04 IN
Power Factor	57
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP4427AAA01													
CAT #	CFSWDNM3556-E					WT	64		LBS				
SPEC	35E4735G332G2					ENCL	TENV						
SER #						CC	010A		IP	69			
HP	1		MAG CUR			3/1.5							
VOLTS	230/460					NEMA NOM. EFF					82.5		
AMPS	4/2					PF	57						
RATING	40C AMB-CONT												
RPM	1180					MAX RPM		1800					
FRAME	56C	HZ	60		CODE	N	CLASS	H					
SER.F.	1.15	SF AMP	4.2/2.1				PH	3	DES	B			
DE	6205		ODE		6205								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90		1.5:1		
ID LOGO	WK2	0.319	CT	15	TO	60	4:1						
ID LOGO	SL HZ	1.1	VT	3	TO	60	20:1						
						QR							
YR													

AC Induction Motor Performance Data

Record # 87656

Preliminary Data Sheet

Winding: 35WGG332-R001			Type: 3544M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		4.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		4/2	Breakdown Torque		22.68 LB-FT	
R.P.M.		1180	Pull-up Torque		12.18 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	14.18 LB-FT	
NEMA Design Code	B	KVA Code	N	Starting Current	14.64 A	
Service Factor (S.F.)		1.15	No-load Current		1.52 A	
NEMA Nom. Eff.	82.5	Power Factor	57	Line-line Res. @ 25°C	11 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		74°C	
S.F. Amps		4.2/2.1	Temp. Rise @ S.F. Load		84°C	
			Locked-rotor Power Factor		43	
			Rotor inertia		0.319 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	36	48	57	64	69	61
Efficiency	66.9	78.1	82.1	83.2	83.3	82.5	83.3
Speed	1195	1190	1184	1178	1172	1165	1174
Line amperes	1.55	1.64	1.79	1.98	2.21	2.47	2.12

ABB Motors and Mechanical Inc.

WINDING # 35WGG332

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1180 RPM 460 V 3544M

TORQUES (LB-FT) : PO=22.68 PU=12.18 LR=14.18 LRA=14.64





